

# PTPOWER 95-3L/FE-F - High-current terminal block



3260127

<https://www.phoenixcontact.com/us/products/3260127>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 232 A, number of connections: 8, number of positions: 4, connection method: PowerTurn connection, cross section: 25 mm<sup>2</sup> - 95 mm<sup>2</sup>, mounting type: direct screw connection, color: gray/black-yellow

## Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- In addition to using the existing test pick-off, pick-off terminal blocks can be connected, each of which can also accommodate two test cables
- The compact design enables wiring in a confined space
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3260127       |
| Packing unit                         | 2 pc          |
| Minimum order quantity               | 2 pc          |
| Sales key                            | BE22          |
| Product key                          | BE2211        |
| GTIN                                 | 4046356779012 |
| Weight per piece (including packing) | 890.5 g       |
| Weight per piece (excluding packing) | 890.5 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | TR            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | High current terminal block |
| Number of positions   | 4                           |
| Pitch                 | 25 mm                       |
| Number of connections | 8                           |
| Number of rows        | 1                           |
| Potentials            | 4                           |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 7.54 W |

### Connection data

|   |   |
|---|---|
| Number of connections per level                                   | 2   |
| Nominal cross section   | 95 mm <sup>2</sup>                                      |
| Connection method   | PowerTurn connection                                    |
| Stripping length  | 40 mm   |
| Connection in acc. with standard                                  | IEC 60947-7-1   |
| Conductor cross-section rigid                                     | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Cross section AWG   | 2 ... 3/0 (converted acc. to IEC)                       |
| Conductor cross-section flexible                                  | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Conductor cross-section, flexible [AWG]                           | 2 ... 3/0 (converted acc. to IEC)                       |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>               |
| Cross-section with insertion bridge, rigid                        | 70 mm <sup>2</sup>                                      |
| Cross-section with insertion bridge, flexible                     | 70 mm <sup>2</sup>                                      |
| Nominal current   | 232 A   |
| Maximum load current  | 232 A (with 95 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 1000 V  |

### Connection cross sections directly pluggable

|   |   |
|---|---|
| Conductor cross-section rigid                                     | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |

### Ex data

#### Rated data (ATEX/IECEx)

|                |                        |
|----------------|------------------------|
| Identification | Ⓔ II 2 GD Ex eb IIC Gb |
|----------------|------------------------|

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|   |   |
|---|---|
| Operating temperature range                               | -60 °C ... 110 °C                       |
| Ex-certified accessories                                  | 1206612 SZF 3-1,0X5,5                   |
| List of bridges   | Insertion bridge / EB 2-25/PT / 3260157 |
| Bridge data   | 144 A (50 mm <sup>2</sup> )             |
|   | 174 A (70 mm <sup>2</sup> )             |
| List of bridges   | Insertion bridge / EB 3-25/PT / 3260160 |
| Bridge data   | 144 A (50 mm <sup>2</sup> )             |
|   | 174 A (70 mm <sup>2</sup> )             |
| Ex temperature increase at bridging with insertion bridge | 40 K (237 A / 95 mm <sup>2</sup> )      |
| for bridging with bridge                                  | 1100 V                                  |
| Rated insulation voltage output                           | 1000 V (Permanent)                      |

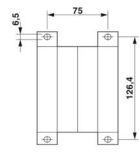
## Ex level General

|                      |        |
|----------------------|--------|
| Rated voltage        | 1100 V |
| Rated current        | 215 A  |
| Maximum load current | 215 A  |
| Contact resistance   | 0.1 mΩ |

## Ex connection data General

|  |   |
|--|---|
| Ferrule length   | 40 mm                                     |
| Stripping length   | 40 mm                                     |
| Nominal cross section  | 95 mm <sup>2</sup>                        |
| Rated cross section AWG  | 4/0                                       |
| Connection capacity rigid  | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Connection capacity AWG  | 4 ... 4/0                                 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min.           | 25 mm <sup>2</sup>                        |
| Conductor cross-section flexible, with ferrule without plastic sleeve max.           | 95 mm <sup>2</sup>                        |
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 4 ... 4/0                                 |

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 100 mm   |
| Height              | 139.1 mm   |
| Depth               | 99.8 mm  |
| Drill hole spacing  | 126.4 mm   |
| Hole diameter       | 6.5 mm   |
| Pitch               | 25 mm  |

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## Material specifications

|   |                      |
|---|----------------------|
| Color   | multicolored (RAL -) |
|   | gray (RAL 7042)      |
|   | black (RAL 9005)     |
|   | yellow (RAL 1018)    |
| Flammability rating according to UL 94                                  | V0                   |
| Insulating material group   | I                    |
| Insulating material   | PA                   |
| Static insulating material application in cold                          | -60 °C               |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C               |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C               |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3          |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3          |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3          |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3          |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg           |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed               |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed               |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed               |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|   |                                     |
|---|-------------------------------------|
| Requirement temperature-rise test               | Increase in temperature $\leq$ 45 K |
| Result  | Test passed                         |
| Short-time withstand current 95 mm <sup>2</sup> | 11.4 kA                             |
| Result  | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 6 kV        |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

### Technical data

|                    |          |
|--------------------|----------|
| Drill hole spacing | 126.4 mm |
|--------------------|----------|

## Mechanical tests

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## Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35/15    |
| Test force setpoint     | 15 N        |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                             |
|--------------------------------|-----------------------------|
| Rotation speed                 | 10 rpm                      |
| Revolutions                    | 135                         |
| Conductor cross-section/weight | 25 mm <sup>2</sup> / 4.5 kg |
|                                | 95 mm <sup>2</sup> /14 kg   |
| Result                         | Test passed                 |

## Environmental and real-life conditions

### Aging

|                    |             |
|--------------------|-------------|
| Temperature cycles | 192         |
| Result             | Test passed |

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz      |
| Acceleration           | 3.12g  |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2018-05 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 30g                                 |
| Shock duration                 | 18 ms                               |
| Number of shocks per direction | 3                                   |
| Test directions                | X-, Y- and Z-axis (pos. and neg.)   |
| Result                         | Test passed                         |

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
|---------------------------------|--|

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|  |   |
|--|---|
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |
| Permissible humidity (operation)         | 20 % ... 90 %   |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |                         |
|---------------|-------------------------|
| Mounting type | direct screw connection |
|---------------|-------------------------|

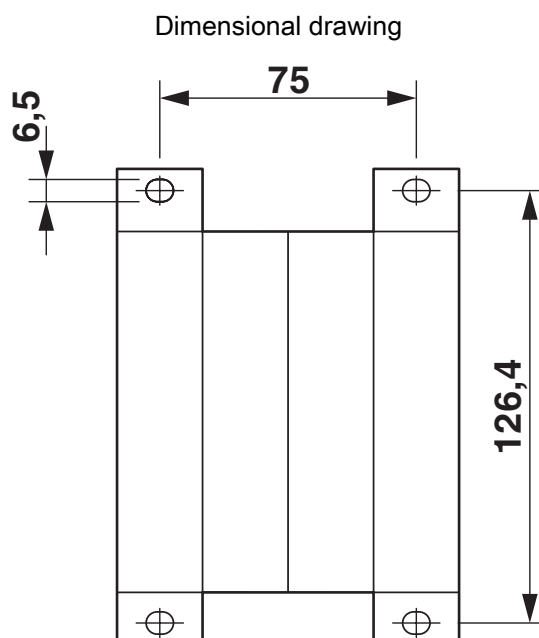
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## Drawings



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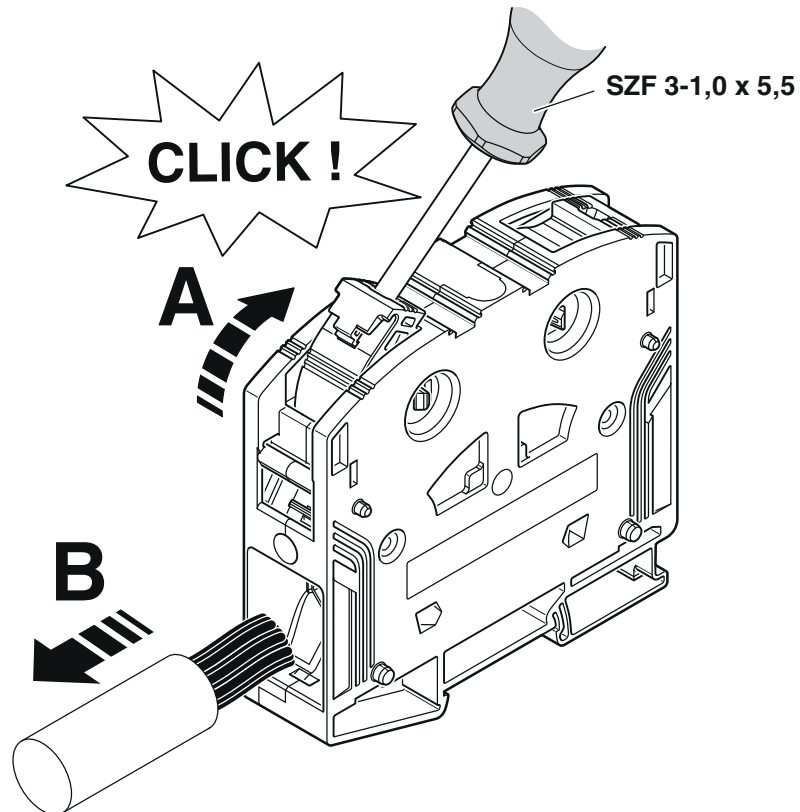
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Schematic diagram

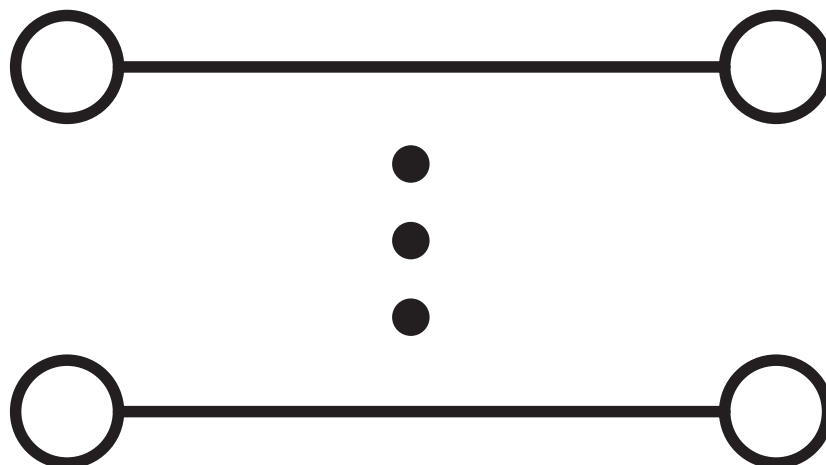
## PTPOWER



|                |  |       |
|----------------|--|-------|
| AGK 10-PTPOWER | 0,5 mm <sup>2</sup> ... 16 mm <sup>2</sup> | 18 mm |
| PTPOWER 35     | 2,5 mm <sup>2</sup> ... 35 mm <sup>2</sup> | 25 mm |
| PTPOWER 50     | 10 mm <sup>2</sup> ... 50 mm <sup>2</sup>  | 32 mm |
| PTPOWER 95     | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>  | 40 mm |
| PTPOWER 185    | 95 mm <sup>2</sup> ... 185 mm <sup>2</sup> | 40 mm |



Circuit diagram



# PTPOWER 95-3L/FE-F - High-current terminal block





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3260127>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  | 600 V                 | 230 A                 | 4 - 4/0           | -                    |
| C  | 1000 V                | 230 A                 | 4 - 4/0           | -                    |

|  <b>cUL Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| C  | 1000 V                | 230 A                 | 4 - 4/0           | -                    |


|  <b>UL Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| E   | 1000 V                | 230 A                 | 4 - 4/0           | -                    |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00644 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

| <b>DNV</b><br>Approval ID: TAE00000Z9 |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>UKCA-EX</b><br>Approval ID: CML 22UKEX1227U |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>IECEX</b><br>Approval ID: IECEXSEV14.0013U |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   |                       |                       |                   |                      |

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|  |        |       |   |         |
|--|--------|-------|---|---------|
|  | 1100 V | 215 A | - | 25 - 95 |
|--|--------|-------|---|---------|



**ATEX**

Approval ID: SEV14ATEX0156U

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 1100 V                | 215 A                 | -                 | 25 - 95                     |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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